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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#4

Application No. : 10/508,939 Confirmation No. 5221
Applicant(s) : Kurt FRANK et al.
Title : ADJUSTABLE PRESSURE REGULATING VALVE FOR
FUEL INJECTION SYSTEMS
TC/A.U. : 3748
Docket No. : R.302449
Customer No. : 02119

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Date: July 6, 2005

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b),
AND EXPLANATION OF THE RELEVANCE OF THE CITED PRIOR ART**

Sir:

The undersigned hereby requests that the prior art cited on the attached prior art statement be placed of record in the application file and be considered by the examiner.

This citation of prior art is made under 37 CFR 1.97(b), since it is being filed before the mailing of a first Office action.

The relevance of the prior art cited on the attached form PTO/SB/08a is as follows:

Applicant: Kurt FRANK et al.
Appl. No. 10/508,939

DE 199 01 863 A1

This patent shows the electromagnet has a pot-shaped magnet housing, an iron core mounted centrally in the housing, a wire coil mounted on the iron core for generating a magnetic flux and a disc-shaped armature plate that is attracted by the housing when the electromagnet is stimulated and exerts a force on a device attached to the electromagnet via a central actuating pin. The armature plate is in the form of a conical frustum.

EP 1 092 863 A2

This patent shows that the valve has an axially guided piston-shaped valve element movable against the force of a closing spring and that acts on a closure element and presses it against a valve seat. The valve element forms the armature of an electromagnet supplied with current to augment the closing force of the spring and has guide sections offset in the axial direction that guide it in the bore and has a reduced cross-section outside the guide section region.

EP 0 916 843 A1

This patent shows the metering valve is controlled by the armature of an electromagnet. The travel of the armature towards the electromagnet is arrested by a stop member integral with a flange fitted to a hollow body by a ring nut connecting the skirt of the electromagnet. A spacer washer made of elastically compressible material is provided between the flange and a shoulder of the hollow body and the tightening torque of the ring nut compresses the washer accordingly to adjust the travel of the armature. According to a variation, a washer of rigid material is provided between the flange and the shoulder, and is small in width to form a projecting annular portion of the flange, which portion of the flange is flexed accordingly by the tightening torque of the ring nut.

Applicant: Kurt FRANK et al.
Appl. No. 10/508,939

US 5,067,688

This patent shows a solenoid valve comprising a cylindrical casing, a coil wound around a bobbin and housed within the casing. Concentrically disposed within the casing are a stationary iron core having a radially inward recess or an annular groove and a valve plunger for operating a valve unit. The casing has inward projections formed in its inner surface which extend into the inward recess of the stationary iron core, for axially securing the stationary iron core with respect to the casing.

US 6,349,703 B1

This patent is in the same family as **EP 1 092 863 A2** and is provided as an aid to the examiner.

US 6,131,829 A

This patent is in the same family as **EP 0 916 843 A1** and is provided as an aid to the examiner.

Examination of this application is respectfully requested.

Respectfully submitted,



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CUSTOMER NO. 02119

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Substitute for form 1449B/PTO				<div> <div>Complete if Known</div> <table border="1"> <tr> <td>Application Number</td> <td>10/508,939</td> </tr> <tr> <td>Filing Date</td> <td></td> </tr> <tr> <td>First Named Inventor</td> <td>Kurt FRANK et al.</td> </tr> <tr> <td>Art Unit</td> <td>3748</td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>R.302449</td> </tr> </table> </div>		Application Number	10/508,939	Filing Date		First Named Inventor	Kurt FRANK et al.	Art Unit	3748	Examiner Name		Attorney Docket Number	R.302449
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Sheet	2	of	2														

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Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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